

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number  
**WO 2005/090519 A1**

(51) International Patent Classification<sup>7</sup>: **C09K 19/32**,  
19/40, 19/18, 19/34, 19/30 Miyanodai, Kaisei-machi, Ashigarakami-gun, Kanagawa,  
2588538 (JP).

(21) International Application Number:  
PCT/JP2005/005449

(74) Agent: SIKs & Co.; 8th Floor, Kyobashi-Nishshoku Bldg.,  
8-7, Kyobashi 1-chome, Chuo-ku, Tokyo, 1040031 (JP).

(22) International Filing Date: 17 March 2005 (17.03.2005)

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,  
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,  
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,  
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
2004-079389 19 March 2004 (19.03.2004) JP  
2004-274718 22 September 2004 (22.09.2004) JP

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/090519 A1

(54) Title: OPTICALLY ANISOTROPIC MATERIAL, LIQUID CRYSTAL DISPLAY DEVICE AND TRIPHENYLENE COMPOUND

(57) Abstract: An optically anisotropic material comprising at least one discotic compound having a cyclopropylcarbonyl group. The material is excellent in both the wavelength dispersion property and the refractive index anisotropy.